

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030325\
 Data File : BF141818.D
 Acq On : 03 Mar 2025 17:47
 Operator : RC/JU
 Sample : Q1475-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-04-02282025

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/04/2025
 Supervised By :Jagrut Upadhyay 03/04/2025

Quant Time: Mar 04 00:12:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	121613	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	483383	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	287578	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	570317	20.000	ng	0.00
76) Chrysene-d12	14.051	240	386345	20.000	ng	0.00
86) Perylene-d12	15.521	264	369388	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	858034	112.675	ng	0.00
7) Phenol-d6	6.498	99	1071869	108.141	ng	-0.01
23) Nitrobenzene-d5	7.439	82	643310	85.068	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	336319	124.570	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1330569	74.188	ng	0.00
79) Terphenyl-d14	12.992	244	1786607	74.819	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.881	142	42716	2.621	ng	97
38) 1-Methylnaphthalene	8.975	142	38789	2.481	ng	99
52) Acenaphthene	9.951	154	247421	15.138	ng	98
55) Dibenzofuran	10.128	168	166934	7.017	ng	96
58) Fluorene	10.469	166	338245	18.982	ng	99
71) Phenanthrene	11.433	178	2806684	92.003	ng	99
72) Anthracene	11.486	178	1048923	34.308	ng	99
73) Carbazole	11.633	167	508305	18.827	ng	99
75) Fluoranthene	12.627	202	3511771	112.345	ng	98
78) Pyrene	12.851	202	2849937	85.187	ng	96
81) Benzo(a)anthracene	14.039	228	1636350	64.123	ng	98
83) Chrysene	14.074	228	1212622	51.549	ng	97
87) Indeno(1,2,3-cd)pyrene	17.004	276	440567	18.730	ng	95
88) Benzo(b)fluoranthene	15.092	252	1472307m	58.514	ng	
89) Benzo(k)fluoranthene	15.110	252	491332m	22.974	ng	
90) Benzo(a)pyrene	15.463	252	992900	49.204	ng	98
91) Dibenzo(a,h)anthracene	17.015	278	117622m	6.126	ng	
92) Benzo(g,h,i)perylene	17.456	276	361439	18.376	ng	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

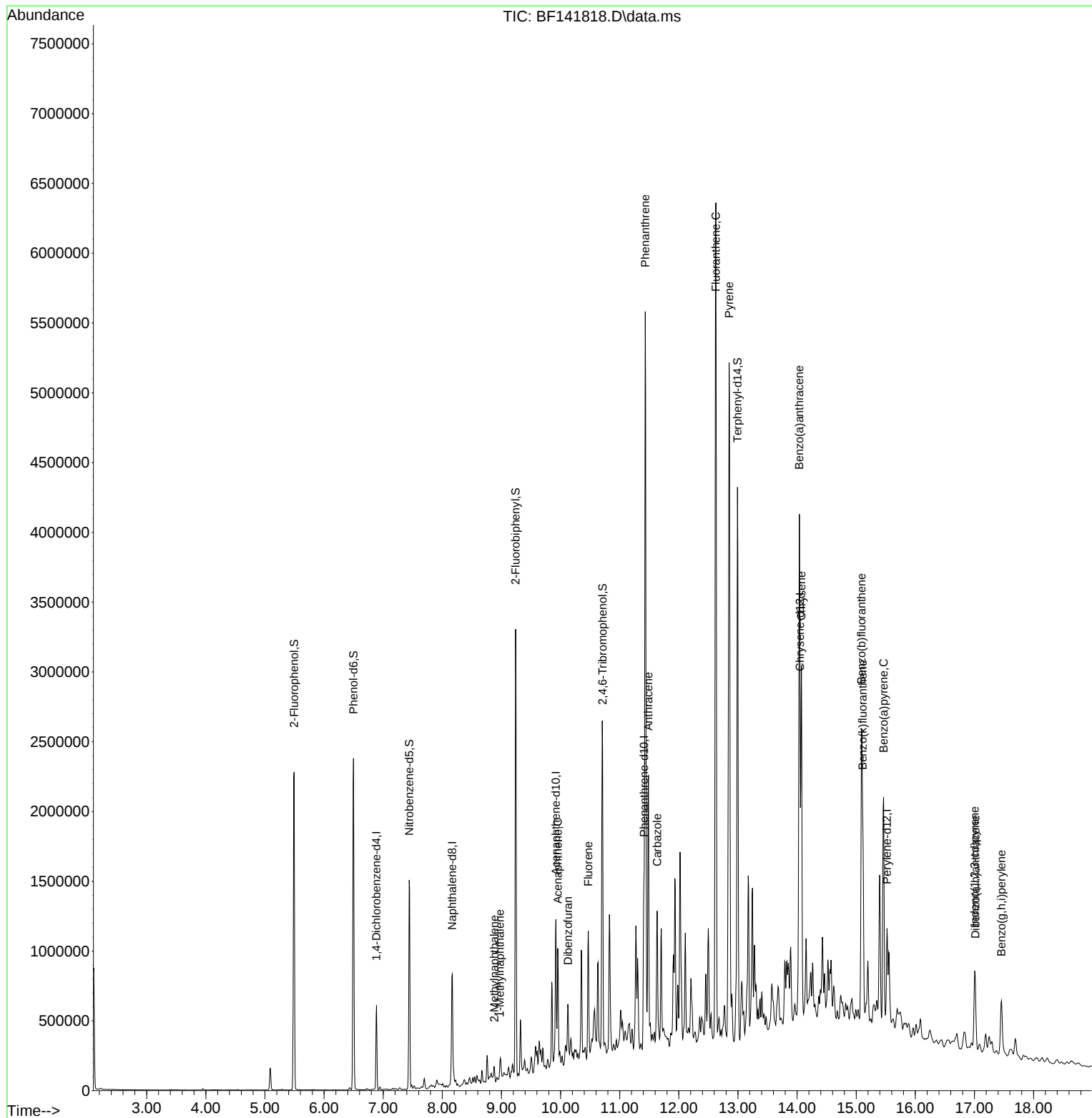
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030325\
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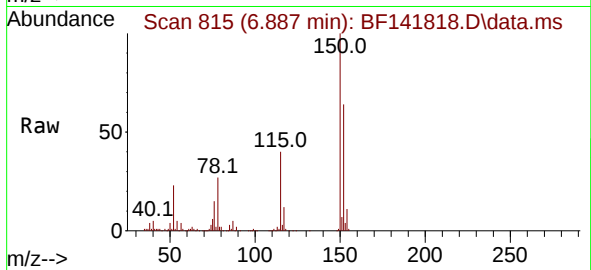
Quant Time: Mar 04 00:12:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 28 01:48:16 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 816
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

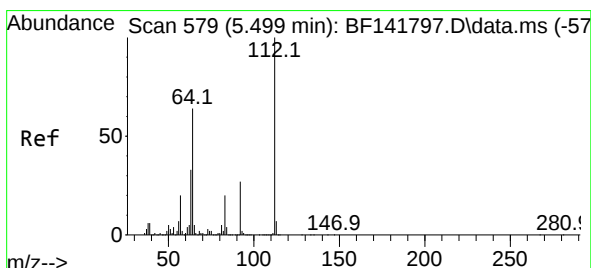
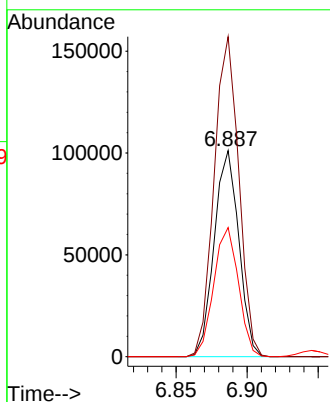
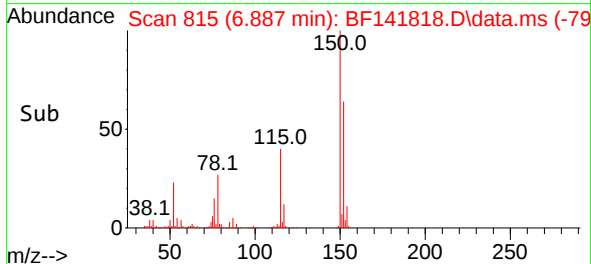
Instrument :
BNA_F
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TR-04-02282025



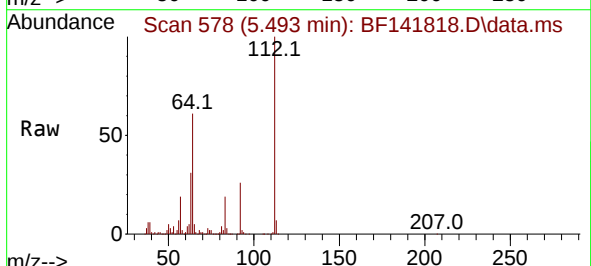
Tgt Ion:152 Resp: 121611
Ion Ratio Lower Upper
152 100
150 155.3 127.5 191.3
115 62.7 51.4 77.2

Manual Integrations
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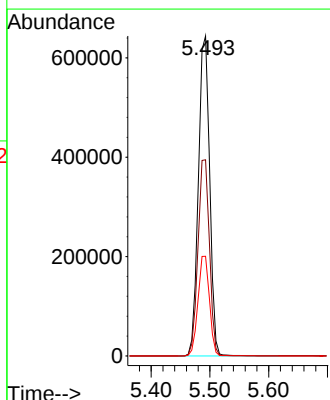
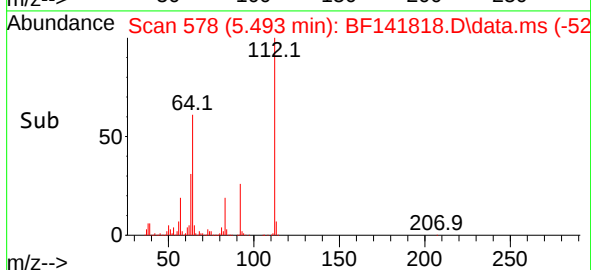
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#5
2-Fluorophenol
Concen: 112.675 ng
RT: 5.493 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47



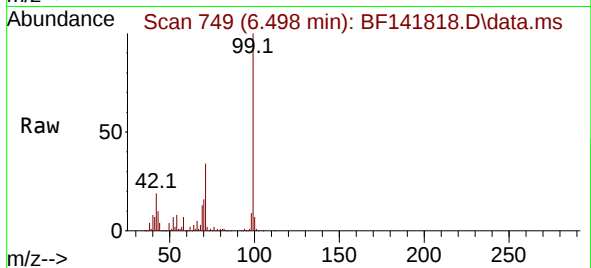
Tgt Ion:112 Resp: 858034
Ion Ratio Lower Upper
112 100
64 61.3 51.3 76.9
63 31.1 26.2 39.4





#7
Phenol-d6
Concen: 108.141 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.012 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

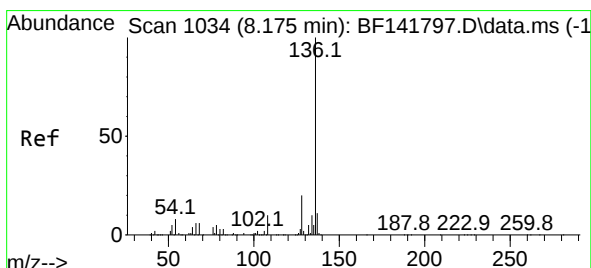
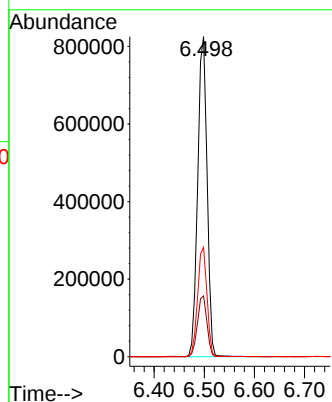
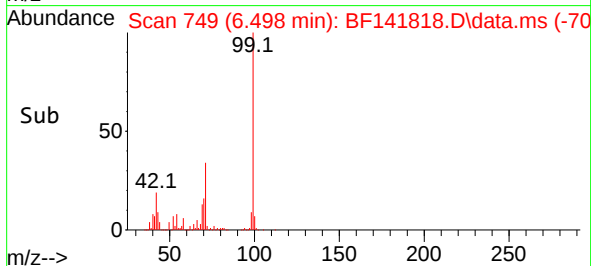
Instrument :
BNA_F
ClientSampleId :
TR-04-02282025



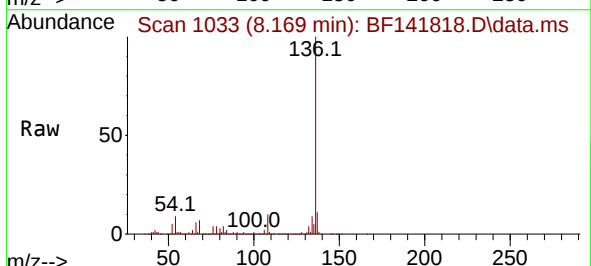
Tgt Ion: 99 Resp: 1071869
Ion Ratio Lower Upper
99 100
42 19.0 15.2 22.8
71 34.2 28.2 42.2

Manual Integrations
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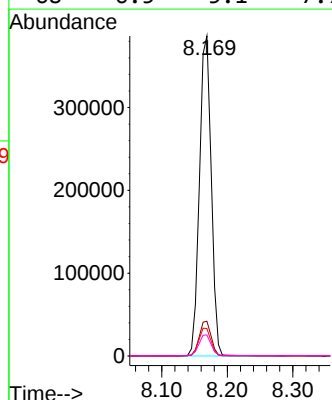
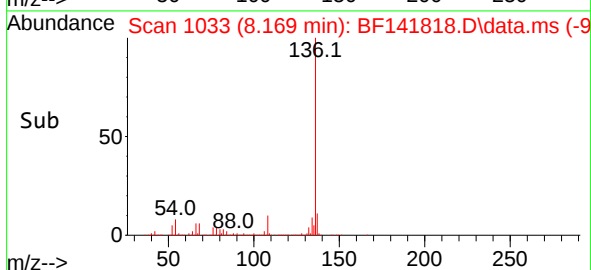
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47



Tgt Ion:136 Resp: 483383
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 8.6 6.9 10.3
68 6.5 5.1 7.7





#23

Nitrobenzene-d5

Concen: 85.068 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141818.D

Acq: 03 Mar 2025 17:47

Instrument :

BNA_F

ClientSampleId :

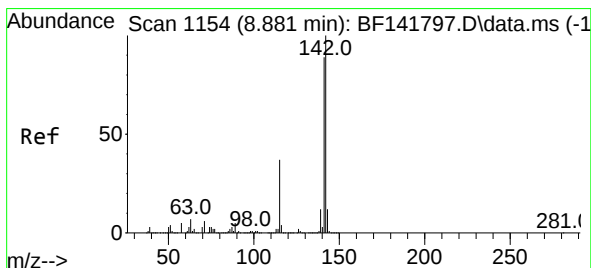
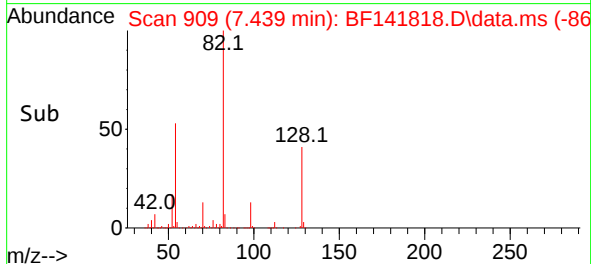
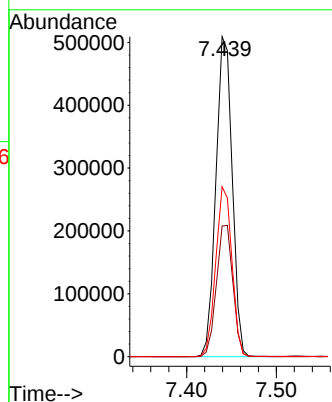
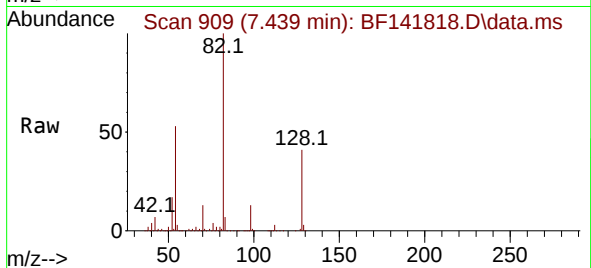
TR-04-02282025

Tgt Ion: 82 Resp: 643310
 Ion Ratio Lower Upper
 82 100
 128 40.9 33.5 50.3
 54 53.1 42.7 64.1

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#37

2-Methylnaphthalene

Concen: 2.621 ng

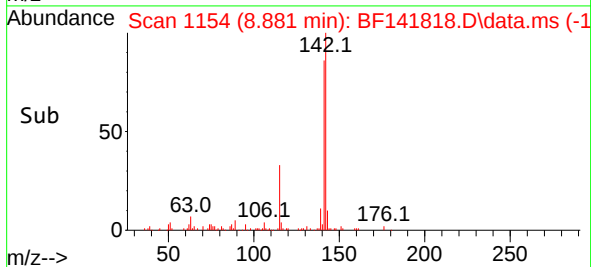
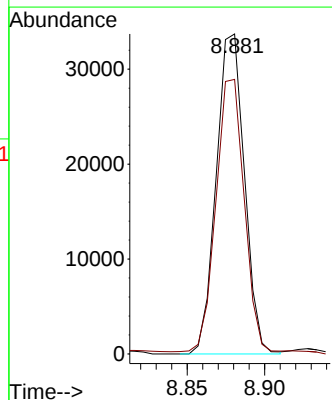
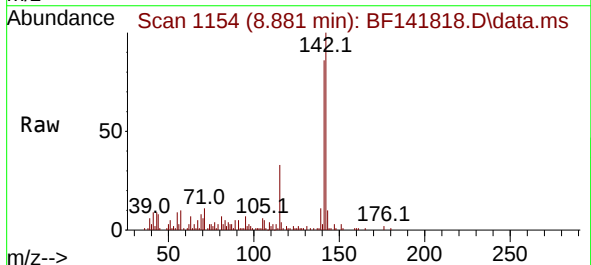
RT: 8.881 min Scan# 1154

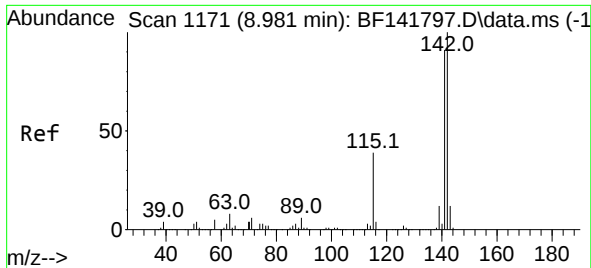
Delta R.T. -0.000 min

Lab File: BF141818.D

Acq: 03 Mar 2025 17:47

Tgt Ion:142 Resp: 42716
 Ion Ratio Lower Upper
 142 100
 141 85.8 71.1 106.7





#38
1-Methylnaphthalene
Concen: 2.481 ng
RT: 8.975 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

Instrument :

BNA_F

ClientSampleId :

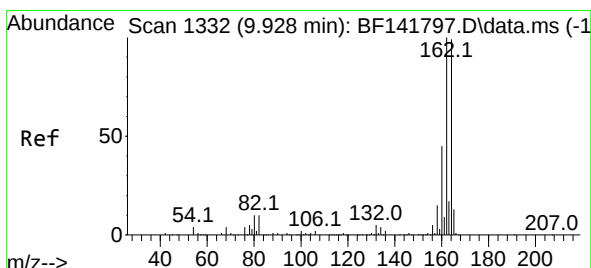
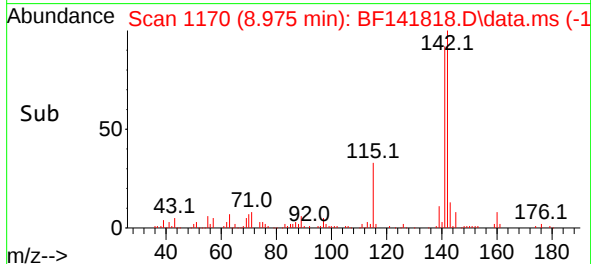
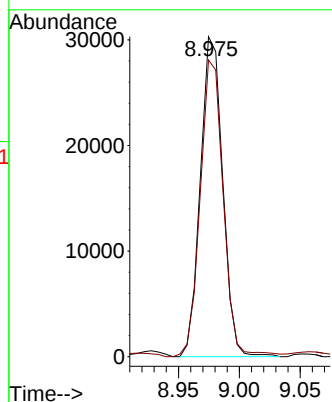
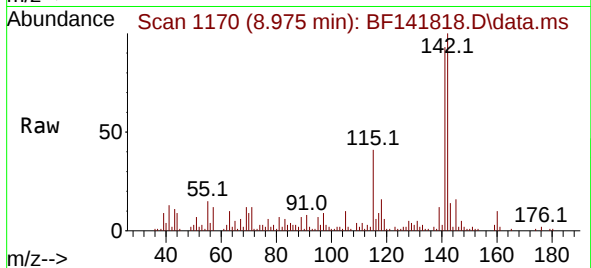
TR-04-02282025

Tgt Ion:142 Resp: 38789
Ion Ratio Lower Upper
142 100
141 92.7 73.1 109.7

Manual Integrations

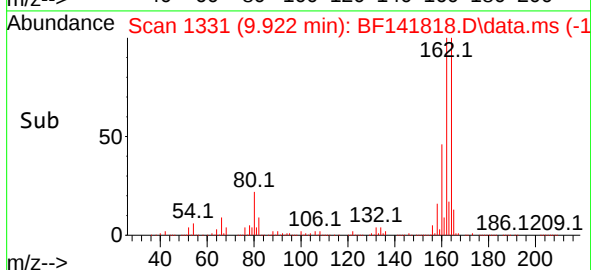
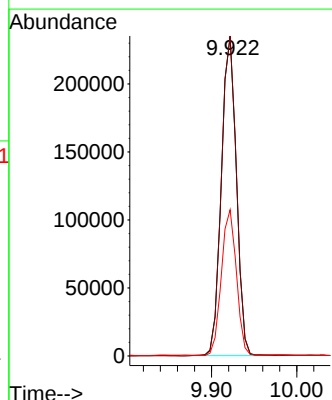
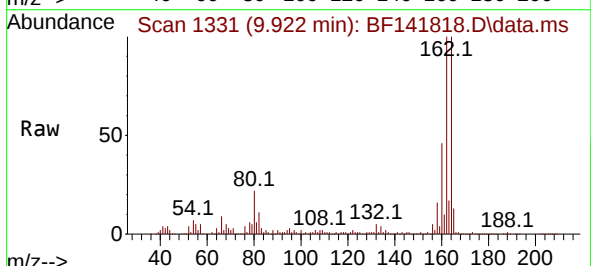
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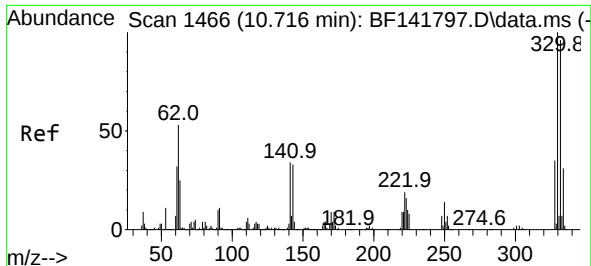
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

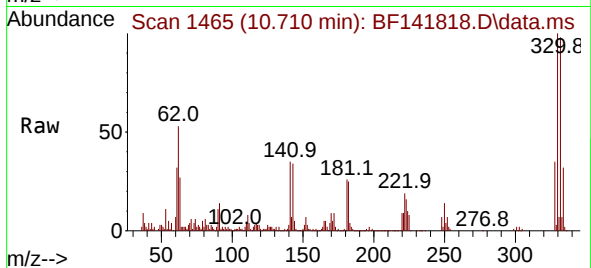
Tgt Ion:164 Resp: 287578
Ion Ratio Lower Upper
164 100
162 100.2 80.6 120.8
160 45.8 36.3 54.5





#42
2,4,6-Tribromophenol
Concen: 124.570 ng
RT: 10.710 min Scan# 1466
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

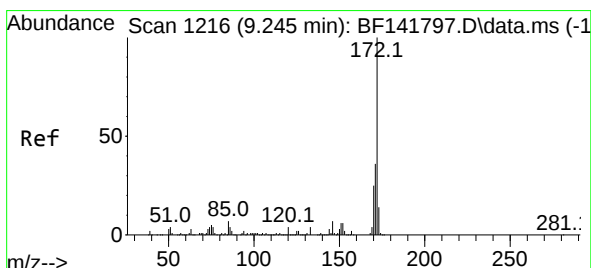
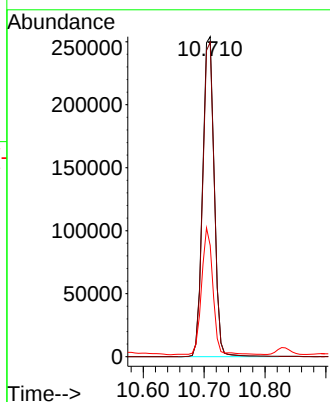
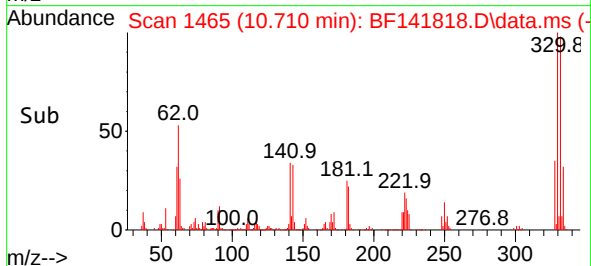
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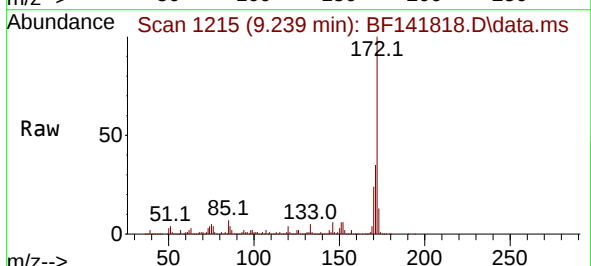
Tgt Ion: 330 Resp: 336319
Ion Ratio Lower Upper
330 100
332 98.0 76.6 115.0
141 38.9 29.0 43.4

Manual Integrations
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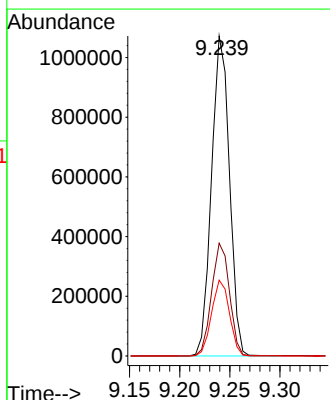
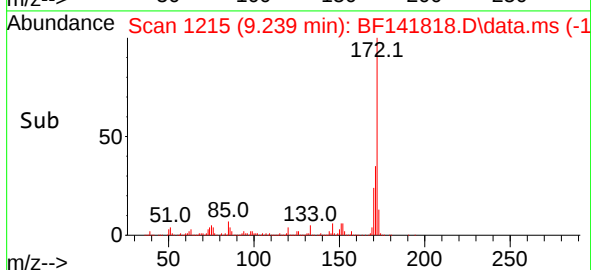
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025

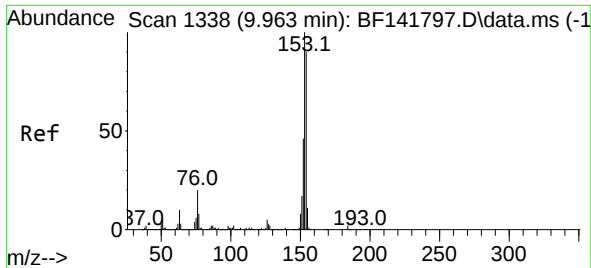


#45
2-Fluorobiphenyl
Concen: 74.188 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47



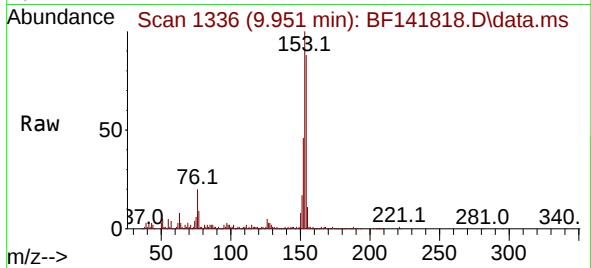
Tgt Ion: 172 Resp: 1330569
Ion Ratio Lower Upper
172 100
171 35.2 29.2 43.8
170 23.7 19.7 29.5





#52
Acenaphthene
Concen: 15.138 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.012 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

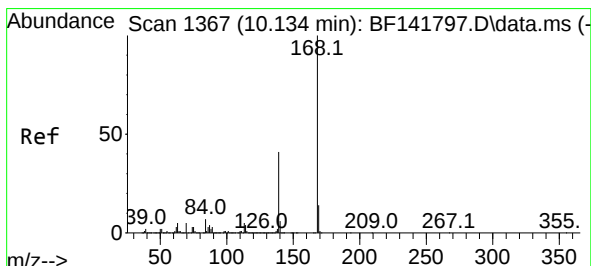
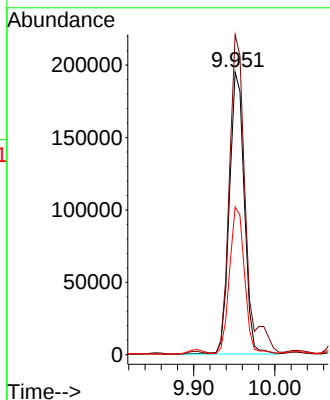
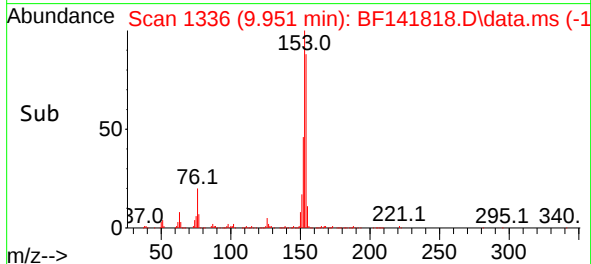
Instrument :
BNA_F
ClientSampleId :
TR-04-02282025



Tgt Ion:154 Resp: 24742
Ion Ratio Lower Upper
154 100
153 113.3 88.7 133.1
152 52.3 40.9 61.3

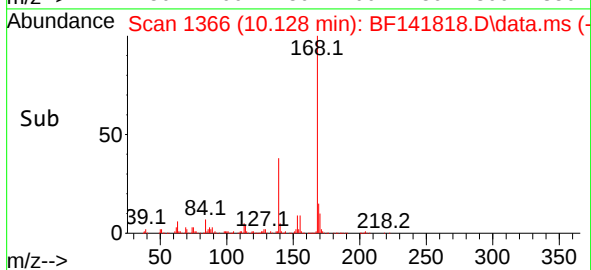
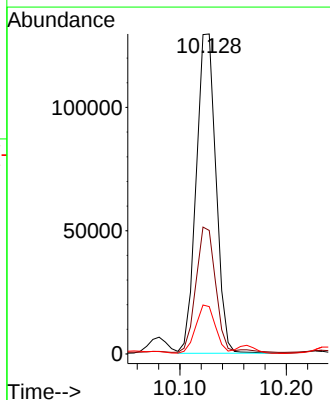
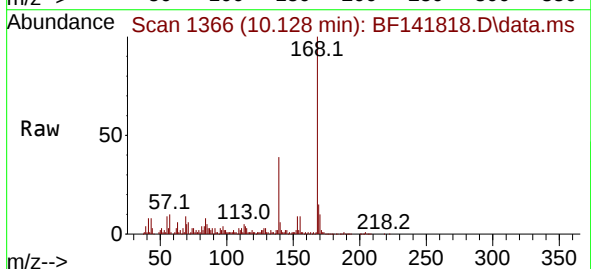
Manual Integrations
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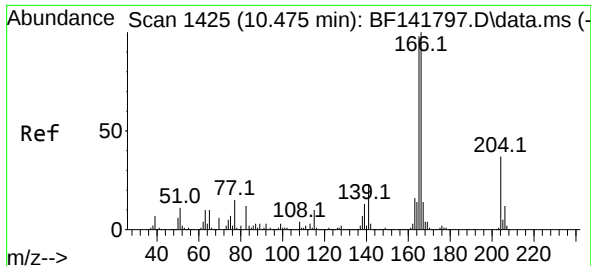
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#55
Dibenzofuran
Concen: 7.017 ng
RT: 10.128 min Scan# 1366
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

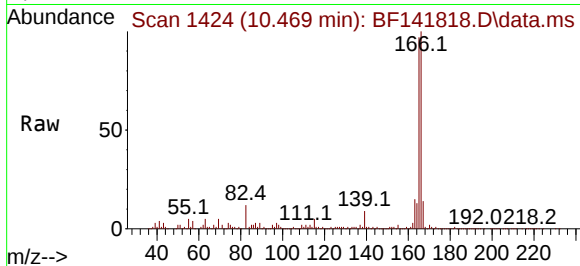
Tgt Ion:168 Resp: 166934
Ion Ratio Lower Upper
168 100
139 38.6 32.9 49.3
169 14.8 11.1 16.7





#58
Fluorene
Concen: 18.982 ng
RT: 10.469 min Scan# 1424
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

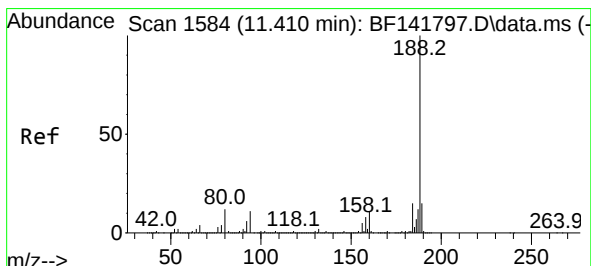
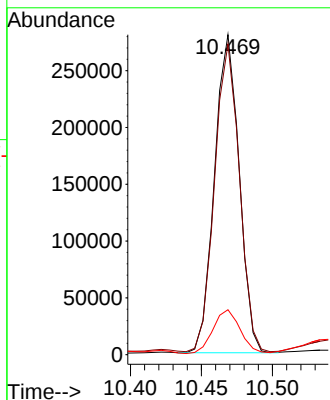
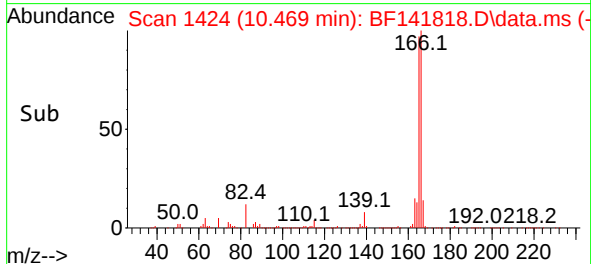
Instrument :
BNA_F
ClientSampleId :
TR-04-02282025



Tgt Ion:166 Resp: 338249
Ion Ratio Lower Upper
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165 97.1 78.6 117.8
167 14.1 11.0 16.4

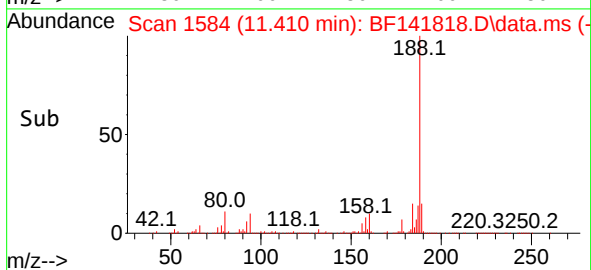
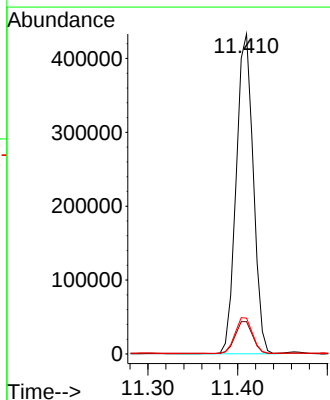
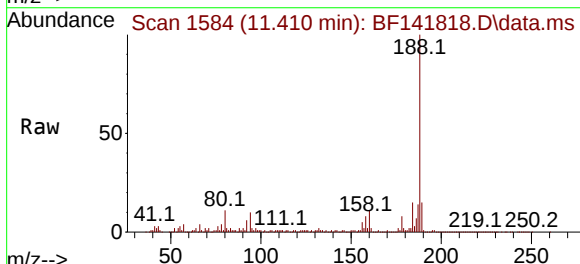
Manual Integrations
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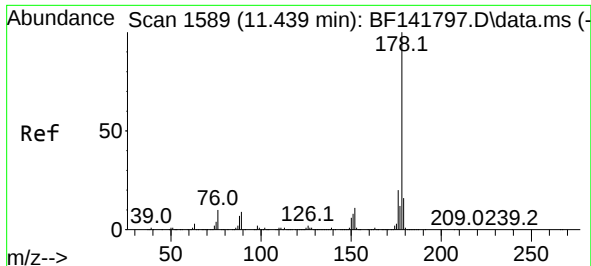
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

Tgt Ion:188 Resp: 570317
Ion Ratio Lower Upper
188 100
94 10.1 8.9 13.3
80 11.2 9.7 14.5





#71
Phenanthrene
Concen: 92.003 ng
RT: 11.433 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

Instrument :

BNA_F

ClientSampleId :

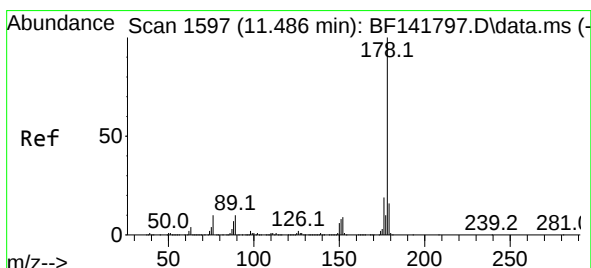
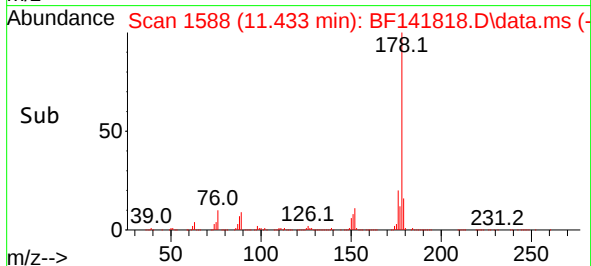
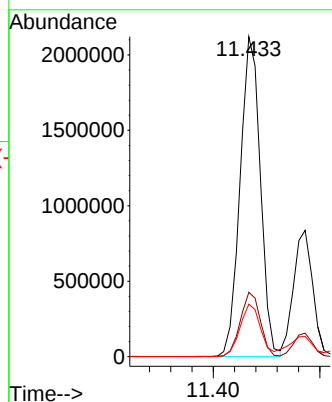
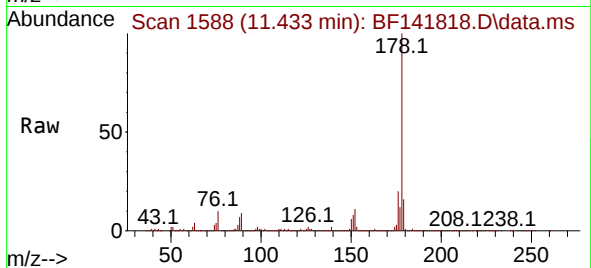
TR-04-02282025

Tgt Ion:178 Resp: 2806684
Ion Ratio Lower Upper
178 100
176 20.1 16.0 24.0
179 16.4 12.6 19.0

Manual Integrations

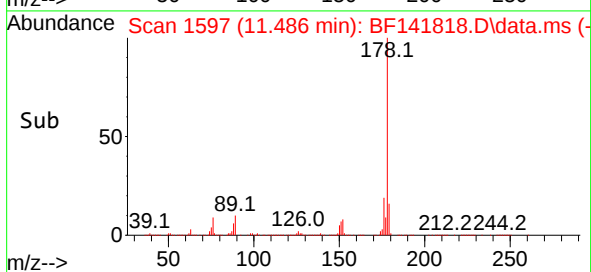
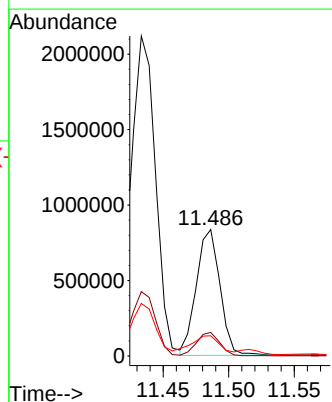
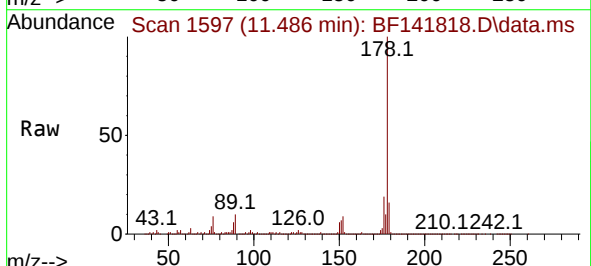
APPROVED

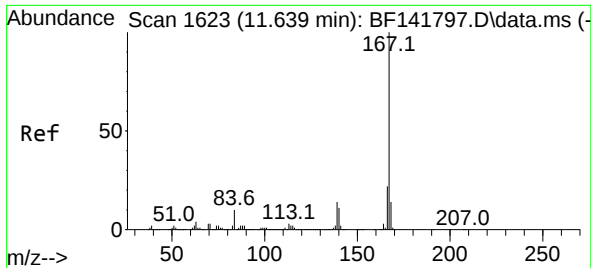
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#72
Anthracene
Concen: 34.308 ng
RT: 11.486 min Scan# 1597
Delta R.T. -0.000 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

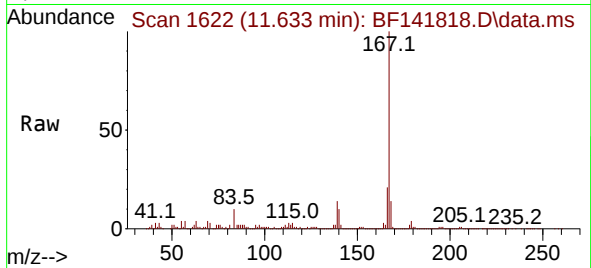
Tgt Ion:178 Resp: 1048923
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.0
179 15.9 12.8 19.2





#73
 Carbazole
 Concen: 18.827 ng
 RT: 11.633 min Scan# 1622
 Delta R.T. -0.006 min
 Lab File: BF141818.D
 Acq: 03 Mar 2025 17:47

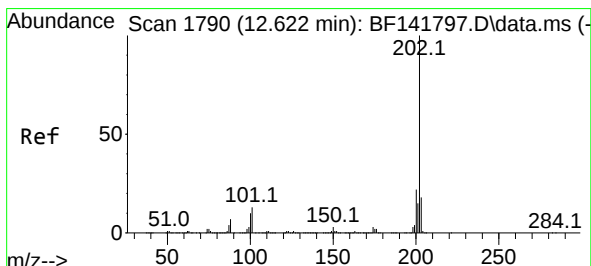
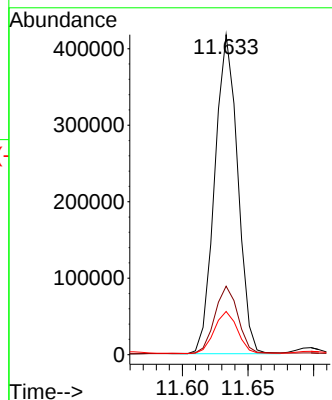
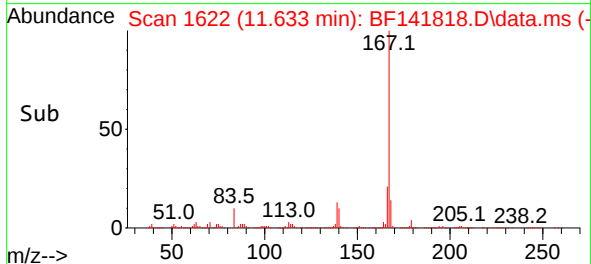
Instrument :
 BNA_F
 ClientSampleId :
 TR-04-02282025



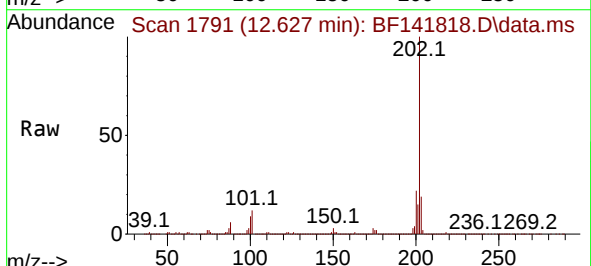
Tgt Ion:167 Resp: 508309
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.5 26.3
 139 13.5 11.3 16.9

Manual Integrations
 APPROVED

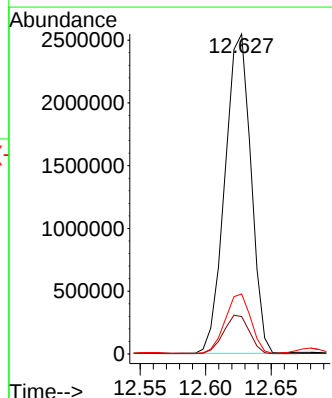
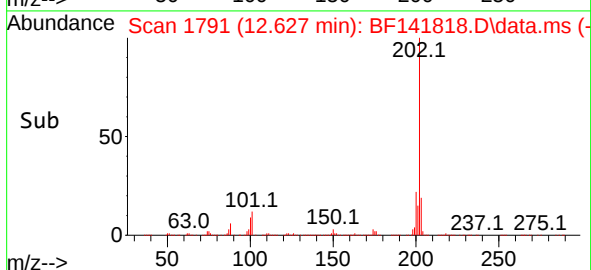
Reviewed By :Anahy Claudio 03/04/2025
 Supervised By :Jagrut Upadhyay 03/04/2025

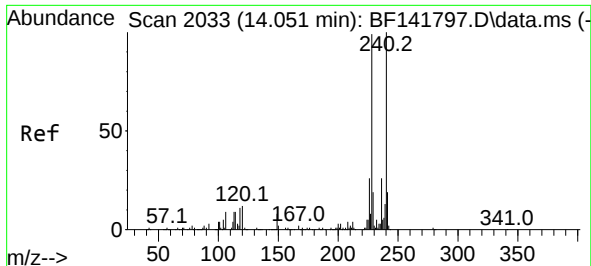


#75
 Fluoranthene
 Concen: 112.345 ng
 RT: 12.627 min Scan# 1791
 Delta R.T. 0.006 min
 Lab File: BF141818.D
 Acq: 03 Mar 2025 17:47



Tgt Ion:202 Resp: 3511771
 Ion Ratio Lower Upper
 202 100
 101 11.7 0.0 32.8
 203 18.7 0.0 38.0





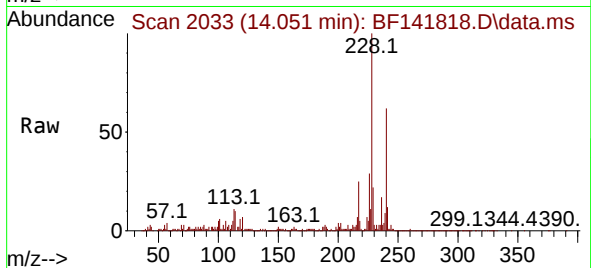
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. -0.000 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

Instrument :

BNA_F

ClientSampleId :

TR-04-02282025

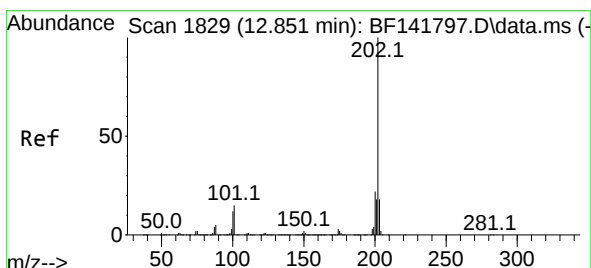
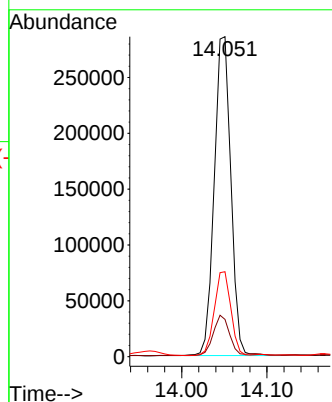
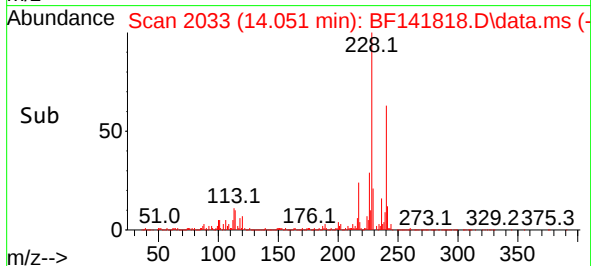


Tgt Ion:240 Resp: 386349
Ion Ratio Lower Upper
240 100
120 11.6 9.7 14.5
236 26.5 21.0 31.4

Manual Integrations

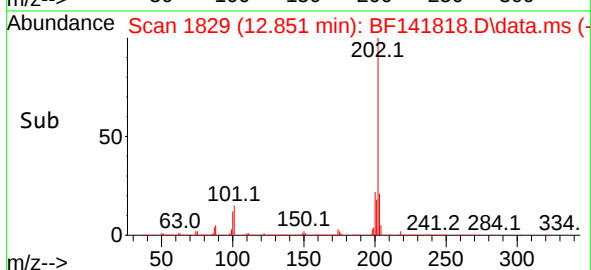
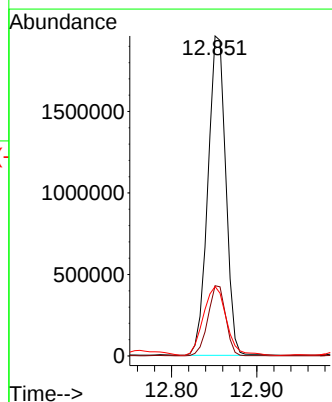
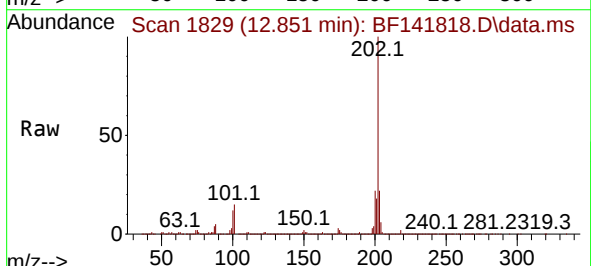
APPROVED

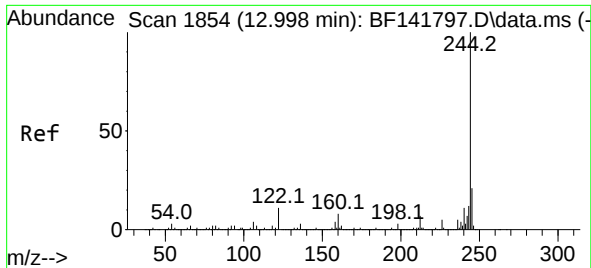
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#78
Pyrene
Concen: 85.187 ng
RT: 12.851 min Scan# 1829
Delta R.T. -0.000 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

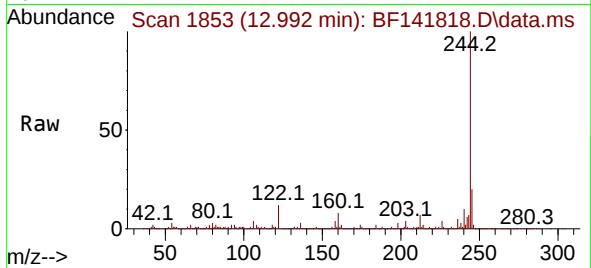
Tgt Ion:202 Resp: 2849937
Ion Ratio Lower Upper
202 100
200 21.9 17.4 26.0
203 21.7 14.6 22.0





#79
 Terphenyl-d14
 Concen: 74.819 ng
 RT: 12.992 min Scan# 1853
 Delta R.T. -0.006 min
 Lab File: BF141818.D
 Acq: 03 Mar 2025 17:47

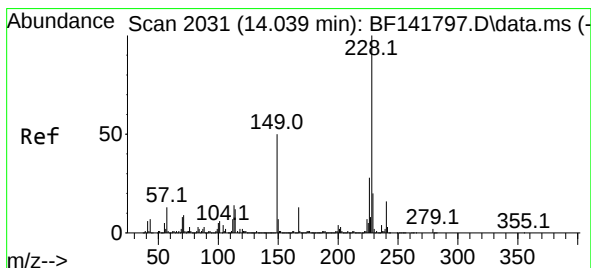
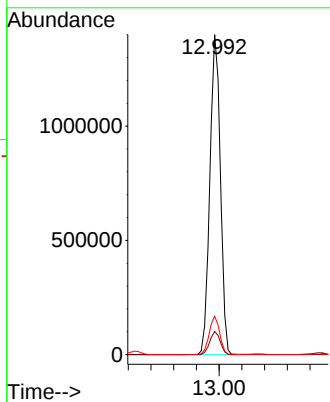
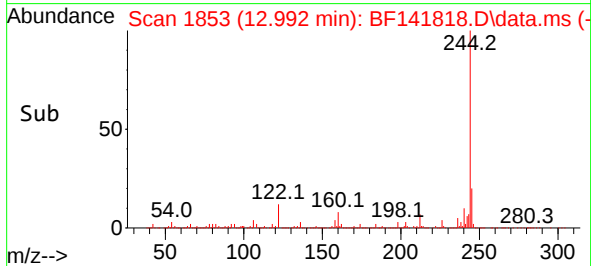
Instrument :
 BNA_F
 ClientSampleId :
 TR-04-02282025



Tgt Ion:244 Resp: 1786607
 Ion Ratio Lower Upper
 244 100
 212 7.3 6.0 9.0
 122 12.0 9.0 13.6

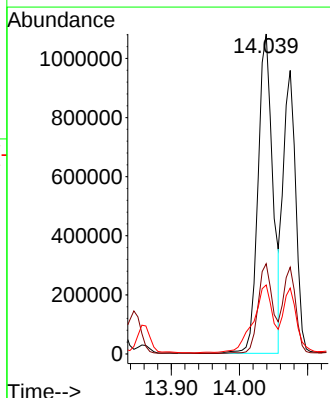
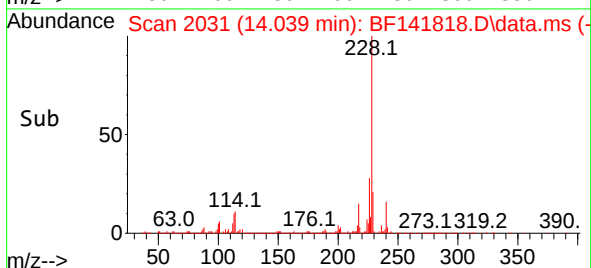
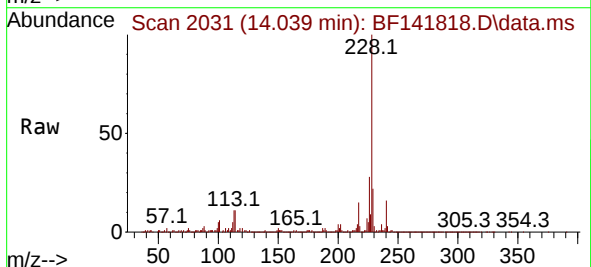
Manual Integrations
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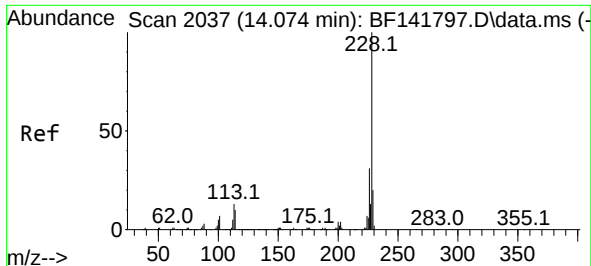
Reviewed By :Anahy Claudio 03/04/2025
 Supervised By :Jagrut Upadhyay 03/04/2025



#81
 Benzo(a)anthracene
 Concen: 64.123 ng
 RT: 14.039 min Scan# 2031
 Delta R.T. -0.000 min
 Lab File: BF141818.D
 Acq: 03 Mar 2025 17:47

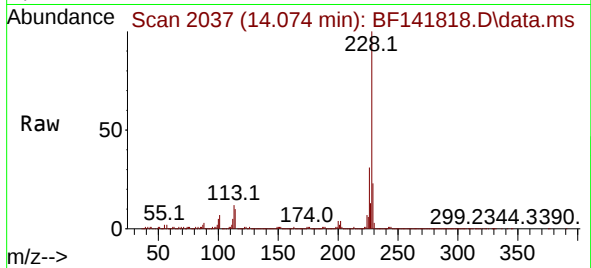
Tgt Ion:228 Resp: 1636350
 Ion Ratio Lower Upper
 228 100
 226 28.2 22.1 33.1
 229 21.6 16.1 24.1





#83
Chrysene
Concen: 51.549 ng
RT: 14.074 min Scan# 2037
Delta R.T. -0.000 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

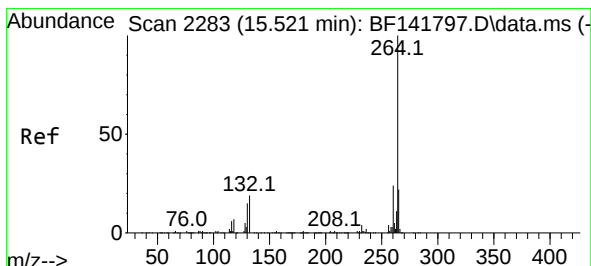
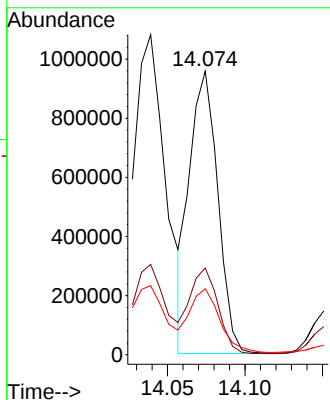
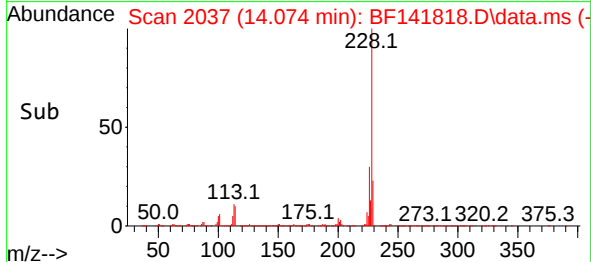
Instrument :
BNA_F
ClientSampleId :
TR-04-02282025



Tgt Ion:228 Resp: 121262
Ion Ratio Lower Upper
228 100
226 30.6 24.6 37.0
229 23.2 16.1 24.1

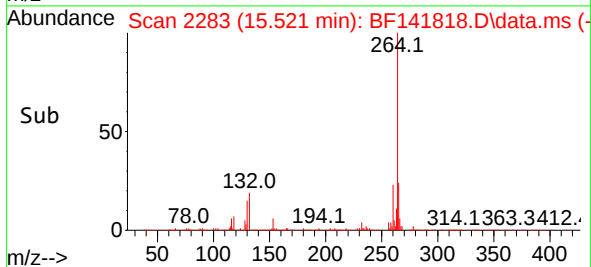
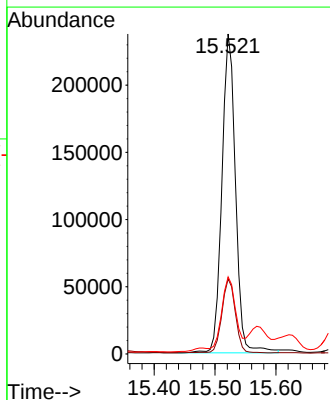
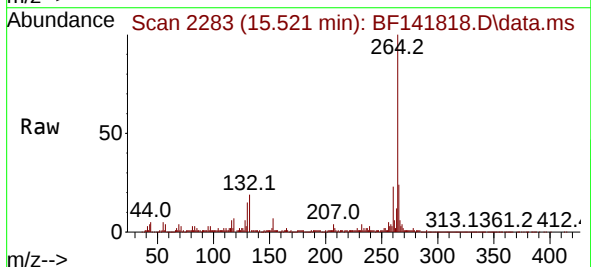
Manual Integrations
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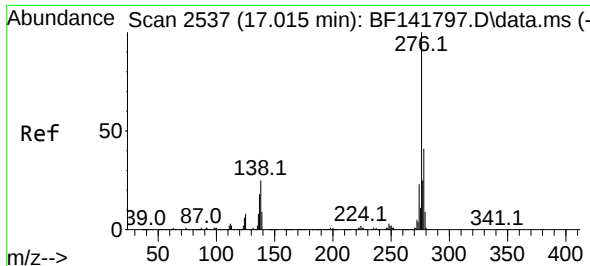
Reviewed By :Anahy Claudio 03/04/2025
Supervised By :Jagrut Upadhyay 03/04/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BF141818.D
Acq: 03 Mar 2025 17:47

Tgt Ion:264 Resp: 369388
Ion Ratio Lower Upper
264 100
260 23.5 18.9 28.3
265 24.1 17.4 26.0





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 18.730 ng
 RT: 17.004 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF141818.D
 Acq: 03 Mar 2025 17:47

Instrument :

BNA_F

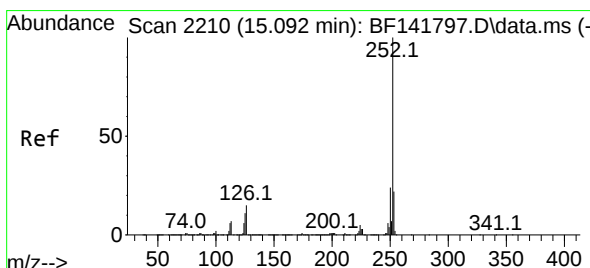
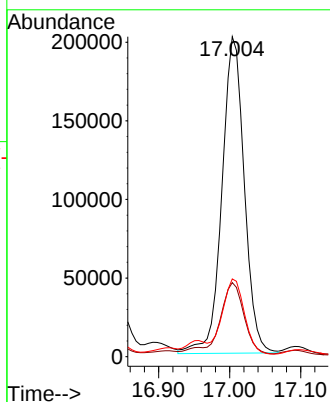
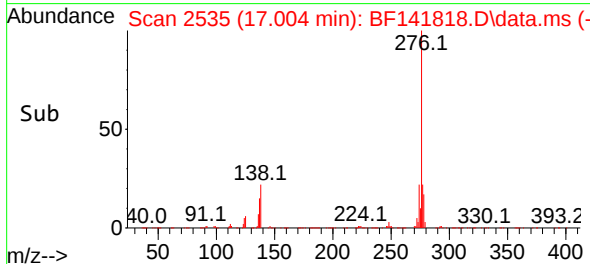
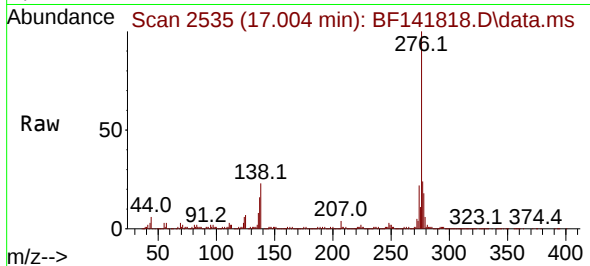
ClientSampleId :

TR-04-02282025

Tgt Ion:276 Resp: 44056
 Ion Ratio Lower Upper
 276 100
 138 24.6 22.5 33.7
 277 23.5 20.3 30.5

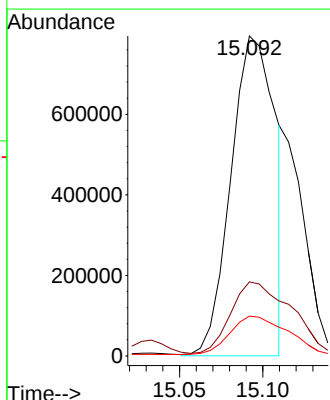
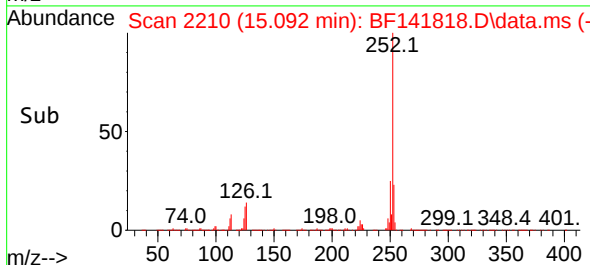
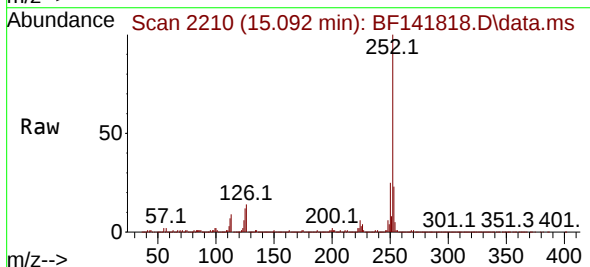
Manual Integrations
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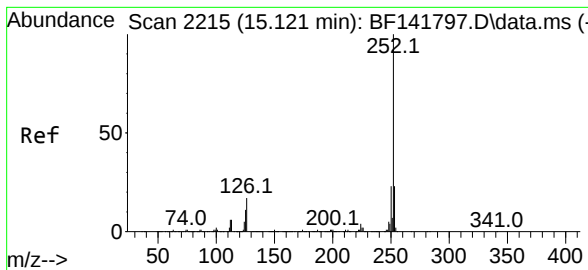
Reviewed By :Anahy Claudio 03/04/2025
 Supervised By :Jagrut Upadhyay 03/04/2025



#88
 Benzo(b)fluoranthene
 Concen: 58.514 ng m
 RT: 15.092 min Scan# 2210
 Delta R.T. -0.000 min
 Lab File: BF141818.D
 Acq: 03 Mar 2025 17:47

Tgt Ion:252 Resp: 1472307
 Ion Ratio Lower Upper
 252 100
 253 23.2 17.7 26.5
 125 12.4 8.6 13.0





#89

Benzo(k)fluoranthene

Concen: 22.974 ng m

RT: 15.110 min Scan# 2215

Delta R.T. -0.012 min

Lab File: BF141818.D

Acq: 03 Mar 2025 17:47

Instrument :

BNA_F

ClientSampleId :

TR-04-02282025

Tgt Ion:252 Resp: 49133

Ion Ratio Lower Upper

252 100

253 23.8 17.8 26.8

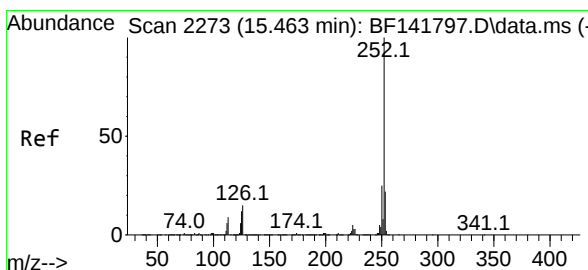
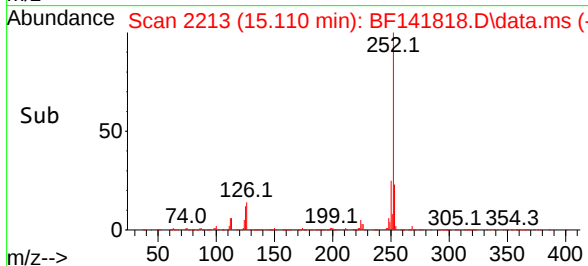
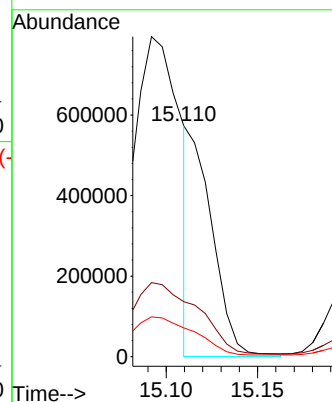
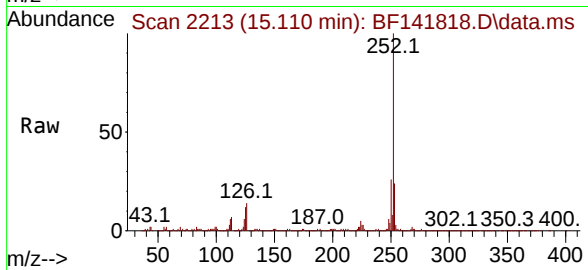
125 12.5 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/04/2025

Supervised By :Jagrut Upadhyay 03/04/2025



#90

Benzo(a)pyrene

Concen: 49.204 ng

RT: 15.463 min Scan# 2273

Delta R.T. -0.000 min

Lab File: BF141818.D

Acq: 03 Mar 2025 17:47

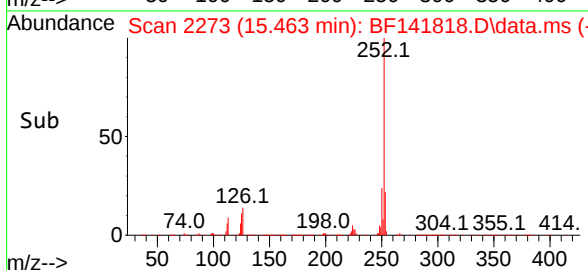
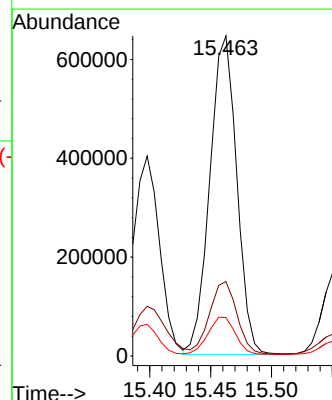
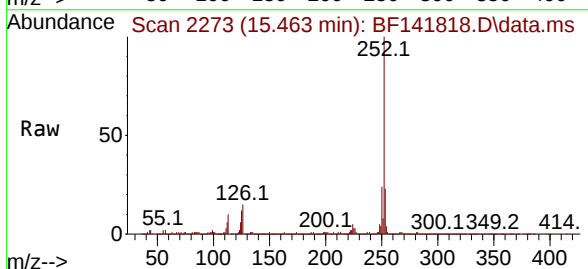
Tgt Ion:252 Resp: 992900

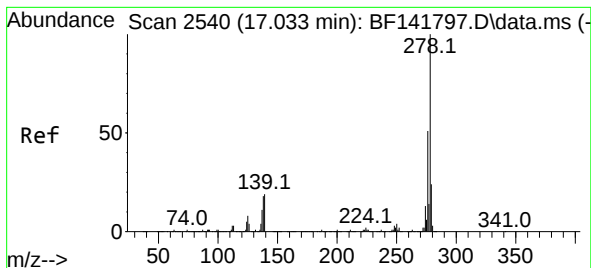
Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 12.0 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 6.126 ng m

RT: 17.015 min Scan# 2537

Delta R.T. -0.018 min

Lab File: BF141818.D

Acq: 03 Mar 2025 17:47

Instrument :

BNA_F

ClientSampleId :

TR-04-02282025

Tgt Ion:278 Resp: 11762

Ion Ratio Lower Upper

278 100

139 20.3 14.9 22.3

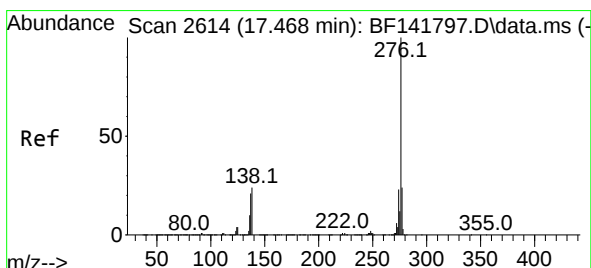
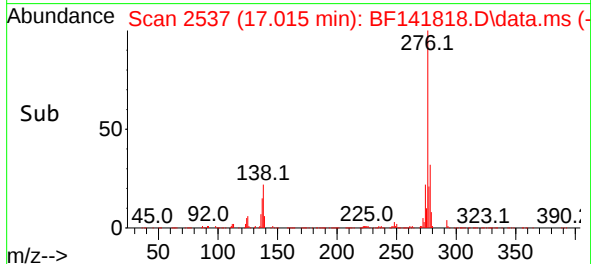
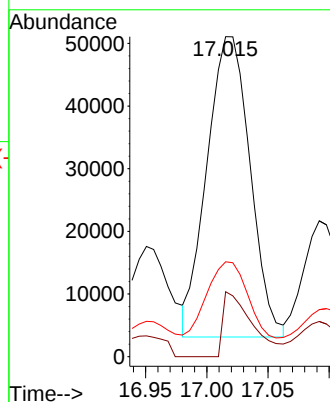
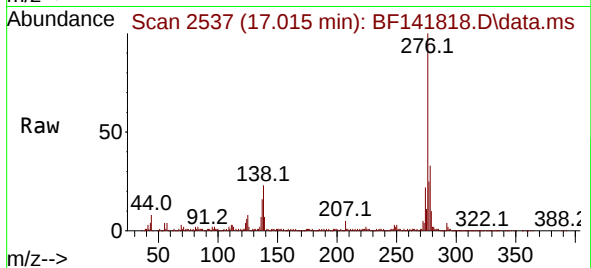
279 29.7 19.3 28.9

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/04/2025

Supervised By :Jagrut Upadhyay 03/04/2025



#92

Benzo(g,h,i)perylene

Concen: 18.376 ng

RT: 17.456 min Scan# 2612

Delta R.T. -0.012 min

Lab File: BF141818.D

Acq: 03 Mar 2025 17:47

Tgt Ion:276 Resp: 361439

Ion Ratio Lower Upper

276 100

277 24.0 19.4 29.0

138 24.0 19.3 28.9

